

## ABSTRACT

## COMMUNICATIONS SYSTEM

5        A short range communications system in which transmitted signals are distorted by multipath effects and non-linear characteristics of circuit elements and cause constellation errors in a received signal. These errors are determined by a receiving transceiver (TR') which transmits a control signal to a transmitting transceiver (TR). The control signal is applied to a stage (12) to  
10    adjust the magnitude of input baseband data prior to modulation in a modulator (14) to predistort the constellation of the modulated signals in such a way that the distortion is effectively eliminated in propagation.

(Figure 1)

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